

INTERNAL FLOATING ROOF STORAGE TANK SUMMARY

I. Tank Identification (Use a separate form for each tank).

1. Applicant's Name: _____
2. Location (*indicate on plot plan and provide coordinates*): _____
3. Tank No. _____ 4. Emission Point No. _____
5. FIN _____ CIN _____
6. Status: New tank ☐ Altered tank ☐ Relocation ☐ Change of Service ☐
- Previous permit or exemption number(s) _____

II. Tank Physical Characteristics

1. Dimensions
 - a. Shell Height : _____ ft.
 - b. Diameter: _____ ft.
 - c. Nominal Capacity or Tank Volume: _____ gallons.
 - d. Turnovers per year: _____
 - e. Net Throughput : _____ gallons/year.
 - f. Maximum Pumping Rate: _____ gallons/hour. (*Use the higher of the maximum fill rate or maximum withdrawal rate.*)
 - g. Self-Supporting Roof ? Yes ☐ No ☐
 - h. Number of Columns: _____
 - i. Column Diameter: _____ ft.
2. Shell/Roof and Paint Characteristics
 - a. Shell Condition : Light Rust ☐ Dense Rust ☐ Guniting Lining ☐
 - b. Shell Color/Shade : White/White ☐ Aluminum/Specular ☐ Aluminum/Diffuse ☐
Gray/Light ☐ Gray/Medium ☐ Red/Primer ☐ Other ☐ (Describe _____)
 - c. Shell Condition : Good ☐ Poor ☐
 - d. Roof Color/Shade : White/White ☐ Aluminum/Specular ☐ Aluminum/Diffuse ☐
Gray/Light ☐ Gray/Medium ☐ Red/Primer ☐ Other ☐ (Describe _____)
 - e. Roof Condition : Good ☐ Poor ☐
3. Rim-Seal System
 - a. Primary Seal: Vapor-mounted ☐ Liquid-mounted ☐ Mechanical Shoe ☐
 - b. Secondary Seal : Yes ☐ No ☐
4. Deck Characteristics
 - a. Deck Type: Bolted ☐ Welded ☐
 - b. Deck Construction (*Bolted Tanks Only*):

Continuous Sheet Construction 5 ft. wide	<input type="checkbox"/>
Continuous Sheet Construction 6 ft. wide	<input type="checkbox"/>
Continuous Sheet Construction 7 ft. wide	<input type="checkbox"/>
Rectangular Panel Construction 5 X 7.5 ft. wide	<input type="checkbox"/>
Rectangular Panel Construction 5 X 12 ft. wide	<input type="checkbox"/>
 - c. Deck Seam Length (*Bolted Tanks Only*): _____ ft.
5. Roof Fitting Loss Factor: _____ lb-mole/year
Based upon Typical ☐ Controlled ☐ or Actual ☐ fittings
Complete Section IV, Fittings Information, to record fittings count used to calculate the roof fitting loss factor.

Permit No. _____ Tank No. _____

III. **Liquid Properties of Stored Material**

1. Chemical Category: Organic Liquids [] Petroleum Distillates [] Crude Oils []
2. Single or Multi-Component Liquid
 Single [] *Complete Section III.3*
 Multiple [] *Complete Section III.4*
3. Single Component Information
 a. Chemical Name: _____
 b. CAS Number: _____
 c. Average Liquid Surface Temperature: _____ °F.
 d. True Vapor Pressure at Average Liquid Surface Temperature: _____ psia.
 e. Liquid Molecular Weight: _____
4. Multiple Component Information
 a. Mixture Name: _____
 b. Average Liquid Surface Temperature: _____ °F.
 c. Minimum Liquid Surface Temperature: _____ °F.
 d. Maximum Liquid Surface Temperature: _____ °F.
 e. True Vapor Pressure at Average Liquid Surface Temperature: _____ psia.
 f. True Vapor Pressure at Minimum Liquid Surface Temperature: _____ psia.
 g. True Vapor Pressure at Maximum Liquid Surface Temperature: _____ psia.
 h. Liquid Molecular Weight: _____
 i. Vapor Molecular Weight: _____

j. Chemical Components Information				
Chemical Name	CAS Number	Percent of Total Liquid Weight (typical)	Percent of Total Vapor Weight(typical)	Molecular Weight

Permit No. _____

Tank No. _____

IV. Fittings Information

			Deck fitting loss factor K_F	Quantity $\times K_F$
Fitting Type	Fitting Status	Quantity		
Access Hatch (24-in. Diam.)	Bolted Cover, Gasketed		1.6	
Access Hatch (24-in. Diam.)	Unbolted Cover, Gasketed		11	
Access Hatch (24-in. Diam.)	Unbolted Cover, Ungasketed		25	
Automatic Gauge Float Well	Bolted Cover, Gasketed		5.1	
Automatic Gauge Float Well	Unbolted Cover, Gasketed		15	
Automatic Gauge Float Well	Unbolted Cover, Ungasketed		28	
Column Well (24-in.Diam.)	Built-Up Col. -Sliding Cover, Gask.		33	
Column Well (24-in.Diam.)	Built-Up Col. -Sliding Cover, Ungask.		47	
Column Well (24-in.Diam.)	Pipe Col. -Flex. Fabric Sleeve Seal		10	
Column Well (24-in.Diam.)	Pipe Col. -Sliding Cover, Gask.		19	
Column Well (24-in.Diam.)	Pipe Col. -Sliding Cover, Ungask.		32	
Ladder Well (36-in. Diam.)	Sliding Cover, Ungasketed		76	
Ladder Well (36-in. Diam.)	Sliding Cover, Gasketed		56	
Roof Leg or Hanger Well	Adjustable		7.9	
Roof Leg or Hanger Well	Fixed		0	0
Sample Pipe or Well (24-in. Diam.)	Slit Fabric Seal 10% Open		12	
Sample Pipe or Well (24-in. Diam.)	Slotted Pipe-Sliding Cover, Gask.		44	
Sample Pipe or Well (24-in. Diam.)	Slotted Pipe-Sliding Cover, Ungask.		57	
Stub Drain (1-in. Diam.)			1.2	
Vacuum Breaker (10-in. Diam.)	Weighted Mech. Actuation, Gask.		0.7	
Vacuum Breaker (10-in. Diam.)	Weighted Mech. Actuation, Ungask.		0.9	
Total deck fitting loss factor, lb-mole/year				